

Reagents

cell types:	MEF
miRNA inhibitor:	miRCURY LNA™ microRNA Power Inhibitor 5 nmol, dilute 5 nmol in 250 µl H ₂ O = 20 µM stock solution, aliquot, store at -20°C
transfection reagent:	HiPerFect (Qiagen, Cat.no. 301705), 4°C
transfection medium:	serum-free MEF medium (DMEM + 1% Glu, + 1% P/S) or serum-reduced Opti-MEM I medium (Invitrogen Cat.no. 31985-062)
culture medium:	MEF medium (DMEM + 1% Glu + 1% P/S + 10% FCS)
protocol:	traditional protocol
material:	vortexer, round-bottom tubes (BD Falcon, Cat.no. 352063)

Procedure

Day before transfection

12-well

- seed approx. 0.5×10^5 cells/in 1.5 ml medium per 6-well
(test and adapt seeding density for individual MEF clones)

6-well

1.0×10^5 cells/in 3 ml medium

Day of transfection

12-well

- reduce medium to 1.1 ml
- dilute 20 µM stock solution 1:5 in sterile H₂O or serum-free medium to 4 µM working solution
- for each transfection aliquot the following components into a round-bottom tube:

100 µl serum-free medium
6-9 µl HiPerFect
15-30 µl 4 µM miR-LNA inhibitor (50-100nM)
inhibitor (50-100nM)
 $V_{total} = 1200 \mu l$

100 µl serum-free medium
12-15 µl HiPerFect
6-12 µl 20 µM miR-LNA
 $V_{total} = 2400 \mu l$

- vortex briefly and incubate 5-10 min at RT for complex formation
- drop-wise add 100 µl of transfection mixture onto cells per well, swirl gently
- incubate cell at 37°C/8%CO₂
- fluorescence can be monitored after 4-24h

1st Day after transfection

- change medium 24 h post-transfection, if required